

### ABSTRACT OF THE DISCLOSURE

To provide a novel exhaust gas purifying apparatus that may continue purifying exhaust gas without replenishing liquid catalyst to a liquid reservoir chamber for making, for example, an engine run for a long period of time and is superior in practical use, an exhaust gas purifying apparatus for purifying exhaust gas by bringing the exhaust gas into contact with solid catalyst, comprising an apparatus body having a liquid reservoir chamber where liquid catalyst is reserved, a solid catalyst chamber where the solid catalyst is arranged and a cooling mechanism for cooling the liquid catalyst, wherein the cooling mechanism controls a temperature of the liquid catalyst so that up-and-down shift of a liquid level of the liquid catalyst in the liquid reservoir chamber is prevented as much as possible.